

Title (en)

NOVEL INSECT RESISTANT GENES AND METHODS OF USE

Title (de)

NEUARTIGE RESISTENTE INSEKTENGENE UND VERFAHREN ZUR VERWENDUNG

Title (fr)

NOUVEAUX GÈNES DE RÉSISTANCE AUX INSECTES ET PROCÉDÉS D'UTILISATION

Publication

EP 4045660 A4 20240228 (EN)

Application

EP 20877354 A 20201012

Priority

- US 201962914765 P 20191014
- US 2020055258 W 20201012

Abstract (en)

[origin: WO2021076452A1] Compositions and methods for conferring pesticidal activity to bacteria, plants, plant cells, tissues and seeds are provided. Compositions comprising a coding sequence for a toxin polypeptide are provided. The coding sequences can be used in DNA constructs or expression cassettes for transformation and expression in plants and bacteria. Compositions also comprise transformed bacteria, plants, plant cells, tissues, and seeds. In particular, isolated toxin nucleic acid molecules are provided. Additionally, amino acid sequences corresponding to the polynucleotides are encompassed, and antibodies specifically binding to those amino acid sequences. In particular, the present invention provides for isolated nucleic acid molecules comprising nucleotide sequences encoding the amino acid sequence shown in any of SEQ ID NO: 16 to 30, or the nucleotide sequence set forth in any of SEQ ID NO: 1 to 15, as well as variants and fragments thereof.

IPC 8 full level

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CPC (source: EP US)

A01N 63/23 (2020.01 - EP US); **A01P 7/04** (2021.08 - US); **C07K 14/325** (2013.01 - EP US); **C12N 15/75** (2013.01 - US); **C12N 15/8286** (2013.01 - EP US); **Y02A 40/146** (2018.01 - EP)

Citation (search report)

- [XD] WO 2015088937 A2 20150618 - ATHENIX CORP [US]
- [X] WO 2007147096 A2 20071221 - ATHENIX CORP [US], et al
- See also references of WO 2021076452A1

Designated contracting state (EPC)

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DOCDB simple family (application)

US 2020055258 W 20201012; AR P200102821 A 20201013; AU 2020367523 A 20201012; BR 112022007131 A 20201012; CA 3157234 A 20201012; CN 202080084873 A 20201012; EP 20877354 A 20201012; MX 2022004552 A 20201012; US 202017768157 A 20201012